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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,735	07/26/2006	Ebroul Izquierdo	CML01371EV 5354  EXAMINER	
22917 MOTOROLA	7590 01/11/2008			
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD			BITAR, NANCY	
IL01/3RD	DC II 60106		ART UNIT	PAPER NUMBER
SCHAUMBURG, IL 60196			2624	
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			NOTIFICATION DATE	DELIVERY MODE
			01/11/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.Schaumburg@motorola.com APT099@motorola.com

	Application No.	Applicant(s)				
	10/567,735	IZQUIERDO, EBROUL				
Office Action Summary	Examiner	Art Unit				
	Nancy Bitar	2624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period way reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N, nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>07 February 2006</u> .						
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· · · · · · · · · · · · · · · · · · ·	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-3,5,11,13-15 and 17-25 is/are pend</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-3,5,11,13-15 and 17-25 is/are reject</li> </ul>	vn from consideration.					
7)⊠ Claim(s) <u>3,7-11,13-15,18,19 and 21-23</u> is/are o	objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>07 February 2006</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	e: a)⊠ accepted or b)⊡ objecte drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 5/9/2006.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date				

Application/Control Number:

10/567,735 Art Unit: 2624

#### **DETAILED ACTION**

# Claim Objections

1. Claim 13 is objected to because of the following informalities: Claim 13 depends on cancelled claim 12. Appropriate correction is required.

### Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 24 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 24 recites an apparatus that depends on a method.

  Appropriate correction required.

# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35.U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-2, 5, 20, 24-25 rejected under 35 U.S.C. 102(b) as being anticipated by Chandra et al (SVD-based approach to transparent embedding data into digital images.)

As to claims 1, Chandra et al teaches a method of fragile watermarking (figure 4), characterized by the step of generating at least a first ill-conditioned operator, said ill-

Application/Control Number:

10/567,735 Art Unit: 2624

conditioned operator being related to values extracted from an image or portion thereof A (page 265, step 2, the SVD of each block is performed. The decomposition defines an operator according to eq 2 sine the matrixes have to be positive, note that figure 4 shows performance of block SVD watermark against different values JPEG quality compression. It can be seen that the correlation coef decreases vary rapidly when the JPEG quality decreases hence its fragile.

As to claims 2, Chandra et al teaches method of fragile watermarking according to claim 1 wherein the ill-conditioned operator is generated by altering a value to increase the operator's condition number (paragraph 2.1, the condition number of the operator is increased by increasing the value of the largest singular value).

The limitation of claim 24 has been addressed above with respect to claim 1 above note that the modification is done according to the equations in line 18-20 page 266. Since the value alpha=0.2, see figure 1, the largest singular value is fact increased. By definition an operator is ill conditioned if its condition number is large hence, increasing the largest singular value increases the condition number of the operator making it ill –conditioned

Claim 24-25 differ from claims 1-2 only in that claim 1-2 are method claim whereas, claims 24-25 are apparatus claim. Thus, claim 24-25 are analyzed as previously discussed with respect to claims 1-2 above.

10/567,735 Art Unit: 2624

# Allowable Subject Matter

6. Claims 3, 7-11, 13-15,18-19, 21-23 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nancy Bitar whose telephone number is 571-270-1041.

The examiner can normally be reached on Mon-Fri (7:30a.m. to 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/567,735 Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nancy Bitar

01/07/2008

ANDREW W. JOHNS
PRIMARY FXAMINER